bematech

LE2000 True-flat 15” Touch Screen Monitor

USER MANUAL

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Warning

It will cause malfunction if the monitor is operating with incorrect power voltage. Do not exposure this unit in the rain or moisture environment to reduce the risk of fire or electric shock.

FCC Warning Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice:

- An Unshielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord is used.
- Use only shielded cables to connect I/O devices to this equipment.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Introduction

LE2000 is a color TFT LCD monitor integrated with projective capacitive touch screen, suitable for many types of applications. It can be installed with optional integrated MSR and 2nd LCD display.

Features

- True flat screen
- Optimal display resolution 1024 * 768
- Multi-touch projective capacitive touch
- VESA 75 * 75 mm wall mount standard
- Durable and sturdy base design
- Optional 3 tracks Magnetic Strip Reader (MSR)
- Optional 2nd LCD display (7" / 8.4")
- Adjustable tilting angle up to 90 degrees horizontally
- Low power consumption (only 20W)

Unpacking the touch monitor

- Put the touch monitor on a clean surface; make sure the box in upright position.
- Remove packing materials from inside of box.

Packing Contents

Please make sure all accessories are included:

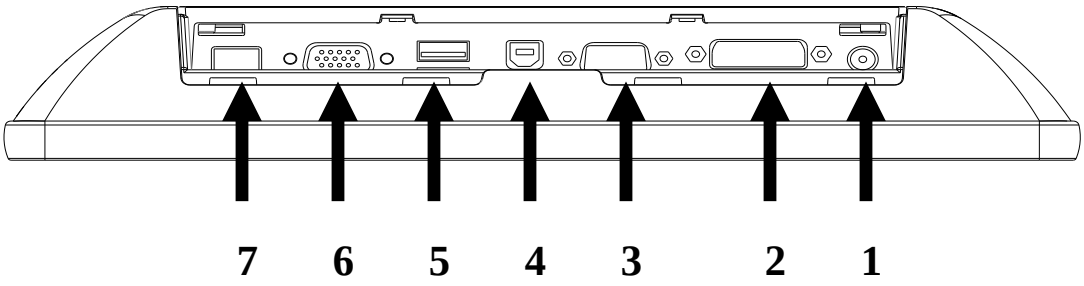
Touch monitor	VGA Cable
Power adaptor	USB interface cable
User Manual / Driver CD	Power cord

Installation

Connections

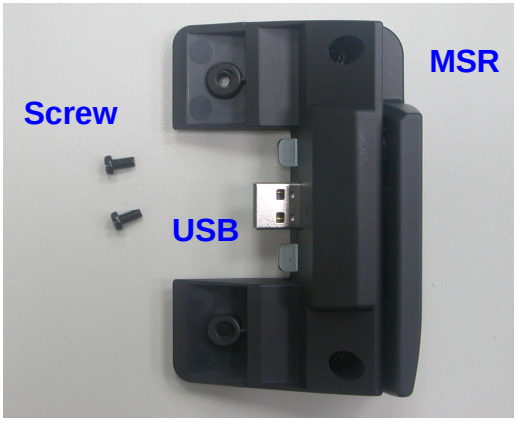
1. Connect VGA cable from monitor to computer VGA port
2. Connect USB cable to computer USB port
3. Connect power cord to power adapter
4. Plug power cord to wall AC power outlet

I/O connectors at side panel

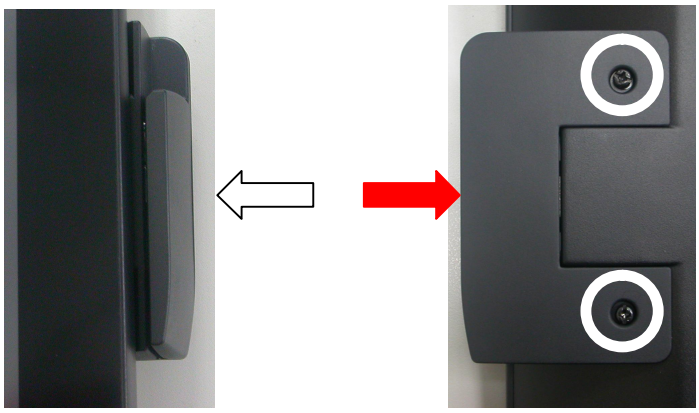


1 DC JACK
2 DVI
3 VGA
4 USB B Type
5 Dual USB A Type
6 RS232
7 RJ45(RS232)

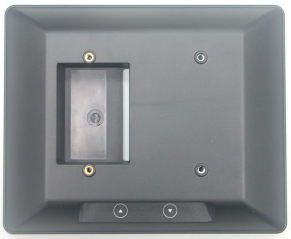
MSR installation (optional)



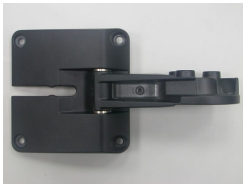
1. Slide the MSR into the right position of the System.
2. Fasten the screws (x2).



Second LCD Display Installation (optional)



Second Display



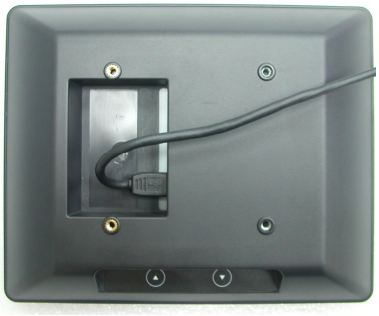
Metal Bracket

USB Cable

Screws

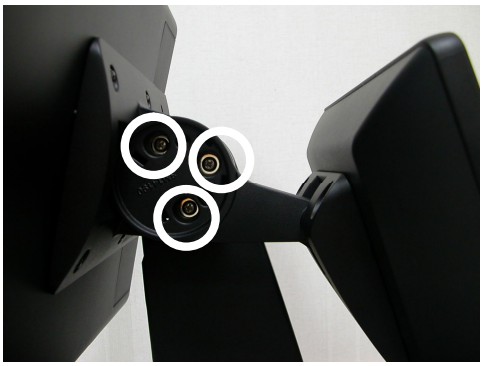
Screws

1. Connect the USB cable to the second display module.



2. Mount metal bracket to the back of second display with 4 screws.

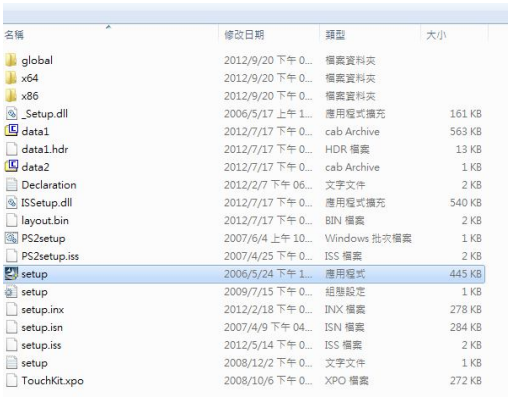
3. Remove cover on side of hinge, install the display arm to the hinge with 3 screws and replace the cover.



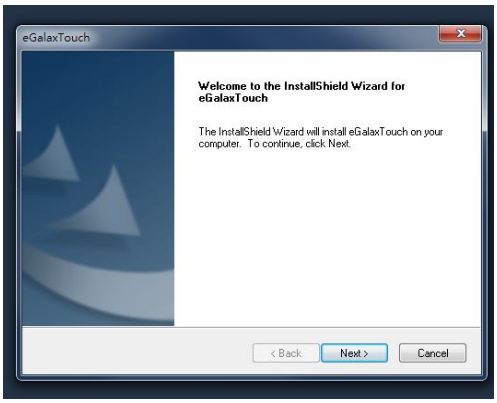
4. Remove I/O port cover on the side of monitor, thread USB cable through the stand and connect the USB cable to the monitor.

5. Reinstall I/O port cover.

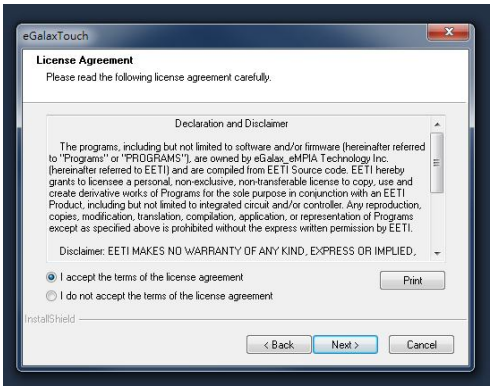
Touch Driver installation


名稱
修改日期
類型
大小
global 2012/9/20 下午 0... 檔案資料夾
x64 2012/9/20 下午 0... 檔案資料夾
x86 2012/9/20 下午 0... 檔案資料夾
_Setup.dll 2006/5/17 上午 1... 應用程式擴充 161 KB
data1 2012/7/17 下午 0... cab Archive 563 KB
data1.hdr 2012/7/17 下午 0... HDR 檔案 13 KB
data2 2012/7/17 下午 0... cab Archive 1 KB
Declaration 2012/2/7 下午 06... 文字文件 2 KB
ISSetup.dll 2012/7/17 下午 0... 應用程式擴充 540 KB
layout.bin 2012/7/17 下午 0... BIN 檔案 2 KB
PS2setup 2007/6/4 上午 10... Windows 批次檔案 1 KB
PS2setup.iss 2007/4/25 下午 0... ISS 檔案 2 KB
setup 2006/5/24 下午 1... 應用程式 445 KB
setup 2009/7/15 下午 0... 組態設定 1 KB
setup.inx 2012/2/18 下午 0... INX 檔案 278 KB
setup.isn 2007/4/9 下午 04... ISN 檔案 284 KB
setup.iss 2012/5/14 下午 0... ISS 檔案 2 KB
setup 2008/12/2 下午 0... 文字文件 1 KB
TouchKit.xpo 2008/10/6 下午 0... XPO 檔案 272 KB

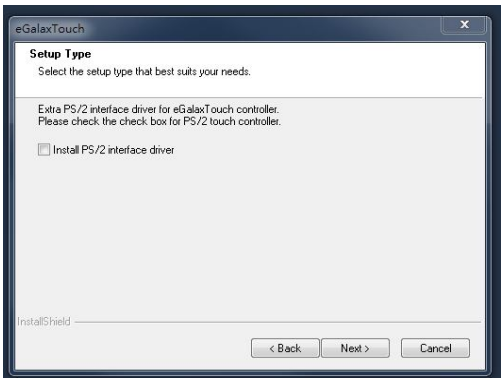
1. Double click “setup.exe” from driver menu


eGalaxTouch
Welcome to the InstallShield Wizard for eGalaxTouch
The InstallShield Wizard will install eGalaxTouch on your computer. To continue, click Next.
< Back
Next >
Cancel

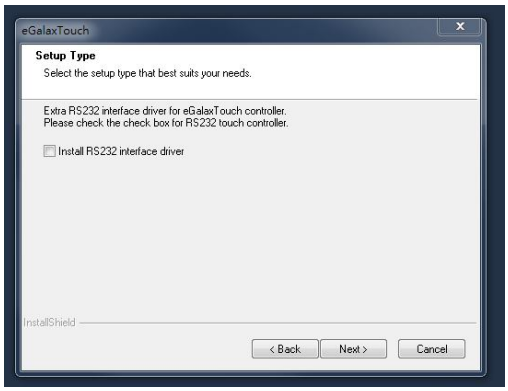
2. Click “Next” to start the setup program of eGalax Touch


eGalaxTouch
License Agreement
Please read the following license agreement carefully.
Declaration and Disclaimer
The programs, including but not limited to software and/or firmware (hereinafter referred to "Programs" or "PROGRAMS"), are owned by eGalax_eMPIA Technology Inc. (hereinafter referred to EETI) and are compiled from EETI Source code. EETI hereby grants to licensee a personal, non-exclusive, non-transferable license to copy, use and create derivative works of Programs for the sole purpose in conjunction with an EETI Product, including but not limited to integrated circuit and/or controller. Any reproduction, copies, modification, translation, compilation, application, or representation of Programs except as specified above is prohibited without the express written permission by EETI.
Disclaimer: EETI MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,
I accept the terms of the license agreement
I do not accept the terms of the license agreement
Print
InstallShield
< Back
Next >
Cancel

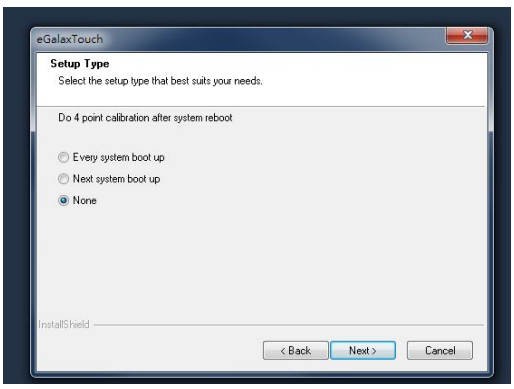
3. Select “I accept the terms of the license agreement” and click “Next” from License Agreement


eGalaxTouch
Setup Type
Select the setup type that best suits your needs.
Extra PS/2 interface driver for eGalaxTouch controller.
Please check the check box for PS/2 touch controller.
Install PS/2 interface driver
InstallShield
< Back
Next >
Cancel

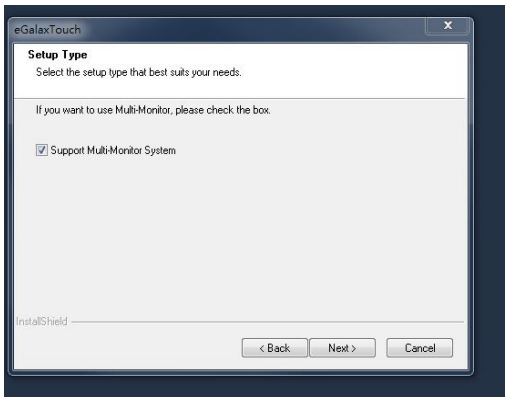
4. Click “Next” from Setup Type


eGalaxTouch
Setup Type
Select the setup type that best suits your needs.
Extra RS232 interface driver for eGalaxTouch controller.
Please check the check box for RS232 touch controller.
Install RS232 interface driver
InstallShield
< Back
Next >
Cancel

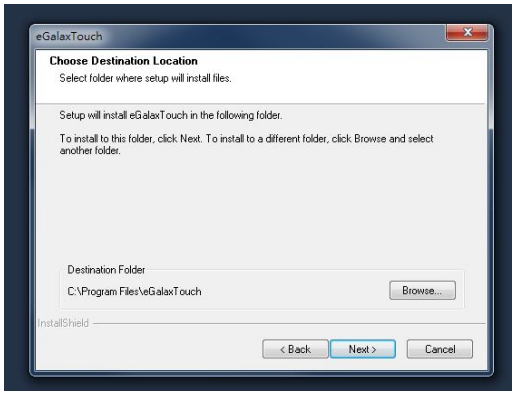
5. Click “Next” from Setup Type



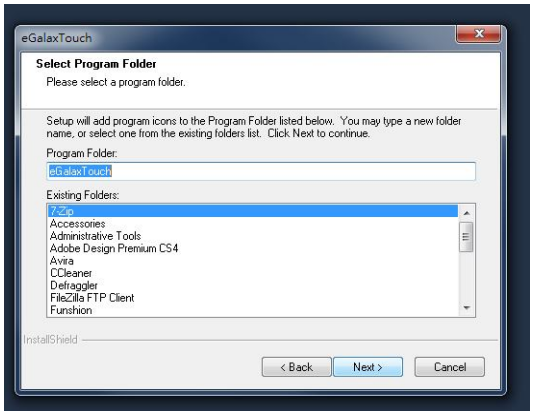
6. Click “Next” from Setup Type



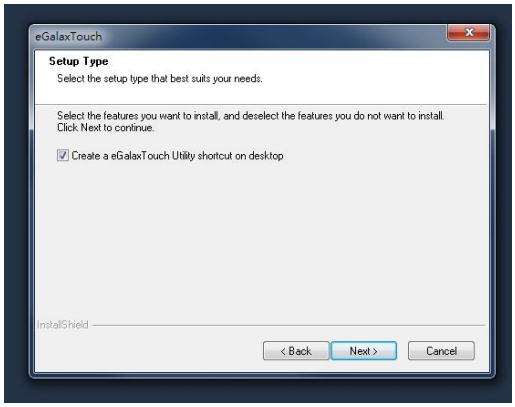
7. Select “Support Multi-Monitor System” and Click “Next”


eGalaxTouch
Choose Destination Location
Select folder where setup will install files.
Setup will install eGalaxTouch in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\eGalaxTouch
Browse...
InstallShield
< Back
Next >
Cancel

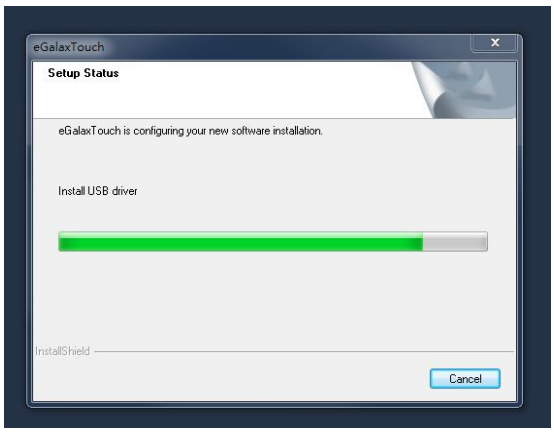
8. “Choose Destination Location” and click “Next”



9. “Select Program Folder” and click “Next”


eGalaxTouch
Setup Type
Select the setup type that best suits your needs.
Select the features you want to install, and deselect the features you do not want to install. Click Next to continue.
Create a eGalaxTouch Utility shortcut on desktop
InstallShield
< Back
Next >
Cancel

10.Click “Next” to start the eGalax Touch Setup



11. eGalax Touch Setup is running

12.Finish and create a eGalax Touch Utility shortcut on desktop

LCD Control Buttons

Auto	a.) Pressing to execute AUTO-Adjusting function. This function will set the monitor display area to the optimal position. b.) Sometimes this function can't achieve the optimal effects. Please follow the manual adjusting procedure.
Menu	When the light bar move other item, the key are used to select it, and read to adjust. Press the MENU key to activate the On Screen Display (OSD). Press twice to turn off the OSD. After 30 sec idle time, the OSD screen will automatically turn off.
Power	Use the power switch to turn the power ON or OFF. We recommend to turn your system power on first, then the LCD monitor.
▲Up	a.) When OSD mode is activated (When “MENU” key is pressed). The two keys are used to select the adjustment items. b.) When adjustment item is selected, the two keys are defined to decrease or increase the value of each selected item.
▼Down	

OSD settings

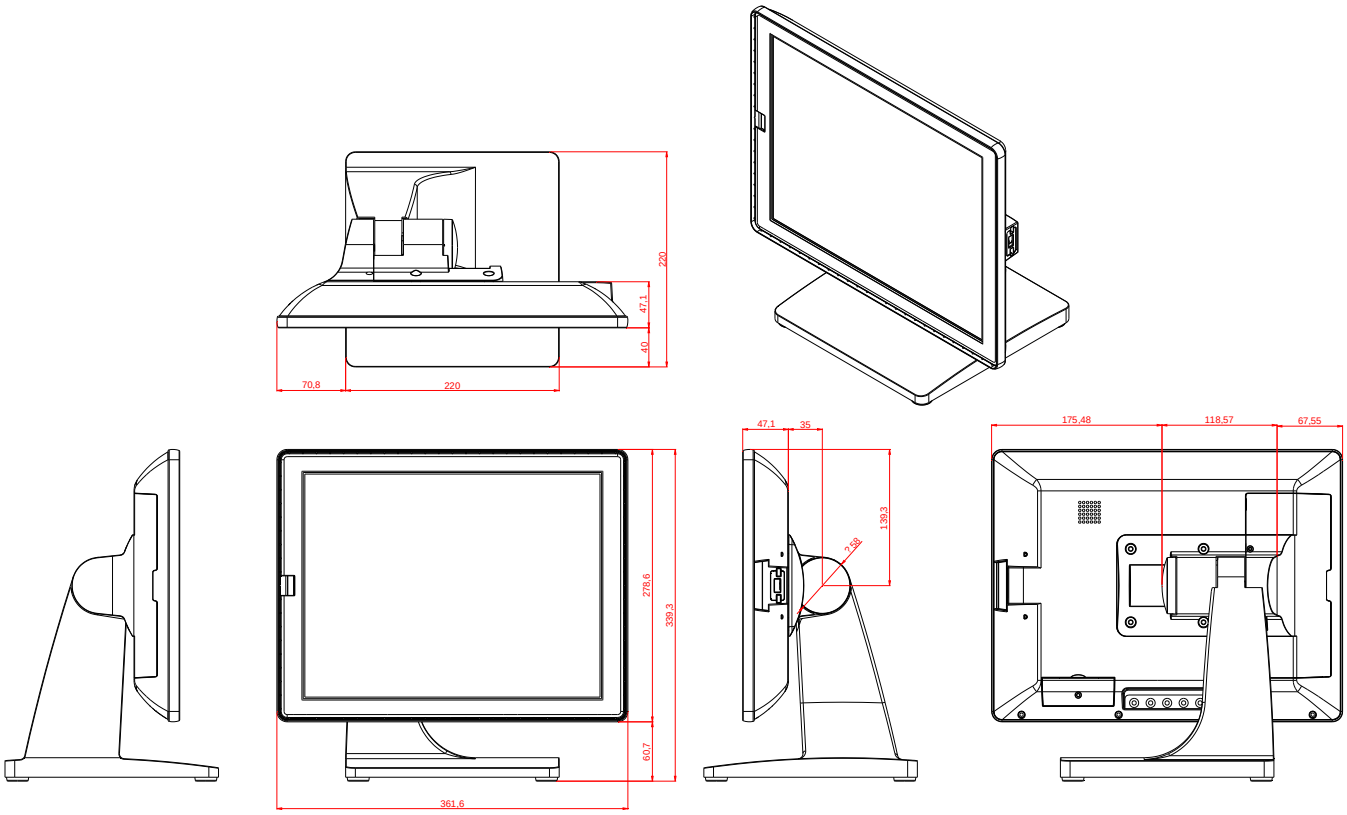
First Level	Second Level	Third Level	Operating Procedure
Auto Adjust			Press “UP” or “DOWN” to adjust H-phase & H-position & V-position clock automatically.
Luminance	Brightness		Press “UP” key to increase brightness, “DOWN” key to decrease brightness.
	Contrast		Press “UP” key to increase contrast, “DOWN” key to decrease contrast.
	Exit		
Geometry	H. Position		Press “UP” key to shift screen right, “DOWN” key to shift screen left.
	V. Position		Press “UP” key to shift picture upward, “DOWN” key to shift picture downward.
	Clock		Adjust sampling clock of analog to digital converter until clock is equal to pixel frequency of video input.
	Phase		By varying this “UP” “DOWN” control the exact sampling time within the pixel can be adjusted.
	Exit		
Color	9300K		Press “UP” or “DOWN” to choose three types of color temperature 9300°k, 6500°k and user define.
	6500K		
	5800K		
	User Preset	Red	
		Green	
		Blue	
		Exit	
	Exit		

OSD	H. Position		Adjust OSD frame horizontal location, press “UP” key to shift frame right, “DOWN” key to shift frame left , timeout and preset OSD.
	V. Position		Adjust OSD frame vertical location, press “UP” key to shift frame upward, “UP” key to shift frame downward , timeout and preset OSD.
	OSD Timeout		
	Exit		
Language	English		Press “UP” or “DOWN” to choose any one of the following languages , English , French , Germany , Italian , Spanish , Russian , Traditional Chinese and Simplified Chinese.
	French		
	German		
	Italian		
	Spanish		
	Russian		
	T. Chinese		
	S. Chinese		
Recall	Color Recall		Recall the default value.
	Recall All		
	Exit		
Miscellaneous	Sharpness		Press “UP” key to increase sharpness, “DOWN” key to decrease sharpness.
	Display Information		
	Exit		
Exit			

Supported timing chart

Timing Mode	Reference Standard	Resolution	Pixel MHz	FH KHz	FV Hz	Interlace	H Polarity	V Polarity
Mode 1	VESA	1024x768	65.000	48.363	60.004	NO	-	-
Mode 2	VESA	1024x768	75.000	56.476	70.069	NO	-	-
Mode 3	VESA	1024x768	75.011	57.524	72.000	NO	+	+
Mode 4	VESA	1024x768	78.750	60.023	75.029	NO	+	+

Mechanical dimensions



Product General Specification

Model	LE2000
Color	Black
Display size	15.0"
Display Area	304 * 228 mm
Optimal Resolution	1024 * 768
Brightness	250 cd/m² (typ)
Contrast Ratio	600:1 (typ)
Response Time	8 ms (typ)
LCD Viewing Angle	160 degrees (H) 160 degrees (V)
Input Video format	VGA / DVI
VGA input signal connector	D-sub 15 pins, DVI-D
Input Frequency	Horizontal: 31.5-60.2 kHz Vertical : 56.3Hz~75Hz
Touch Panel	Projected capacitive
Touch Interface	USB
Power consumption	20W
Power supply	DC 12V +/- 10%
Temperature	Operating : 0°C~40°C Storage : -10°C~50°C
Humidity	Operating : 20%~80% Storage : 10%~90%
Weight (net)	10.3 lb / 4.7kg
Physical Dimension	13.5"H x 14.3"W x 8.7"D
Approvals	CE, FCC
Wall Mount	VESA 75 * 75 mm

*Product specification to be changed without prior notice

LE2000 True-flat 15” Touch Screen Monitor

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bematech.com
logiccontrols.com